LGX ZN55 Industrial IP67 LED Touchscreen Display

User Manual

Version 1.1

PN: ZN55-08

Table of Contents

Important Safety Instructions....3
1. Features....3
2. Specifications....4
3. Installation....5
3.1 Wire Connections....5
3.2 Software & Driver Installation....6
3.3 Installation....7
4. Video Control Keys....9
5. Video Remote Controller Function....9
6. Content of Vlideo OSD Function....10
7. Content of VGA Function....13
8. Language Table of OSD Menu....15
9. VGA Mode Support....16
10. Replacing Batteries Of Remote Controller....17
11. STANDARD PACKAGE....17

Important Safety Instructions

1. Please read these instructions carefully before using the product and save for later reference.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet or car/vehicle ignition before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanent damage to the screen.
4. Do not place this product on an unstable cart, stand, or table. The product might fall, causing serious damage to the product.
5. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, please consult your vendor.
6. When you use this product in the car or vehicle, unplug this product from the ignition before power on your car.
7. Do not attempt to service this product yourself, as removing the screws may cause waterproof function to be unsecured.
8. To prevent traffic accidents, do not operate this product while driving.
9. Do not add pressure to the screen.
10. Please do not add any parts or use any accessory which is not provided from the manufacturer.

1. Features

The ZN55-08 is a sturdy, aluminum-enclosed, 8-inch waterproof VGA touchscreen display supporting NTSC/PAL/SECAM auto switching. It has a wide operating temperature range of -10°C ~ 60°C, wide 12~24-volt DC input, and a high-brightness LCD panel, making it excellent for use in a wide range of lighting situations, including outdoor locations. Its IP67-rated enclosure means it can be immersed in up to 1 meter of liquid, and the included monitor stand and standard VESA MIS-D 75 mounting holes make it easy to install in a variety of usage environments. The single I/O breakout cable makes cable management simple and organized, keeping vehicle cabins and industrial workstations free of clutter.

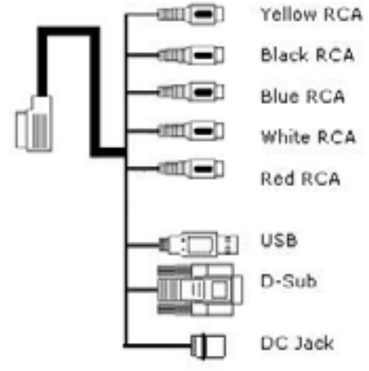
- Touch Screen, No need mouse for use
- Multi Language OSD in English, Spanish, French, German, Italian.
- Ultra-Brightness 600 nits
- Three Video Inputs
- One VGA Input
- Two Audio Inputs (Stereo) (Optional)
- USB Interface
- LED backlight with low power consumption
- NTSC/PAL/SECAM Auto Switching
- Auto Power on for VGA signal
- Auto Reversing Function for Video # 3
- Auto Dimmer Function
- Built-In Speaker (Optional)
- Dust and Waterproof with IP67
- Ideal for Outdoor use
- Sunlight Readable Function

2. Specifications

8-Inch TFT LCD Color Video Monitor	
Resolution	800 (W) x R.G.B. x 600 (H)
Display Size	8-inch TFT
Active Area	162 (W) x 121.5 (H) mm
Brightness	600 cd/m2
Contrast Ratio	500:1
Drive System	Active Matrix
Back Light	LED
Video Input	Composite Video Signal 1 Vpp 75Ω
Video Input System	NTSC/PAL/SECAM Auto Switching
Dot Pitch	0.2025 (W) x 0.2025 (H)
Viewing Angle	T/B/L/R: 60/65/70/70 deg.
Power Source	DC12–24 V
Power Consumption	750 mA (max)
Operation Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Monitor Dimensions	229.6 (L) x 162.79 (H) x 33.9 (D) mm

3. Installation

3.1 Wire Connections



1. Yellow RCA Jack: Video 1
2. Black RCA Jack: Video 2
3. Blue RCA Jack: Video 3 (For Reversing Camera, when you shift the reverse gear, the camera image will be shown on the screen automatically)
4. White RCA Jack: Audio L1 (optional)
5. Red RCA Jack: Audio R1 (optional)
6. USB: Wire to PC for install touchkit software purpose
7. 15-pin D-SUB: Wire to PC
8. DC Jack: Power DC12V or DC12-24V

3.2 Software & Driver Installation

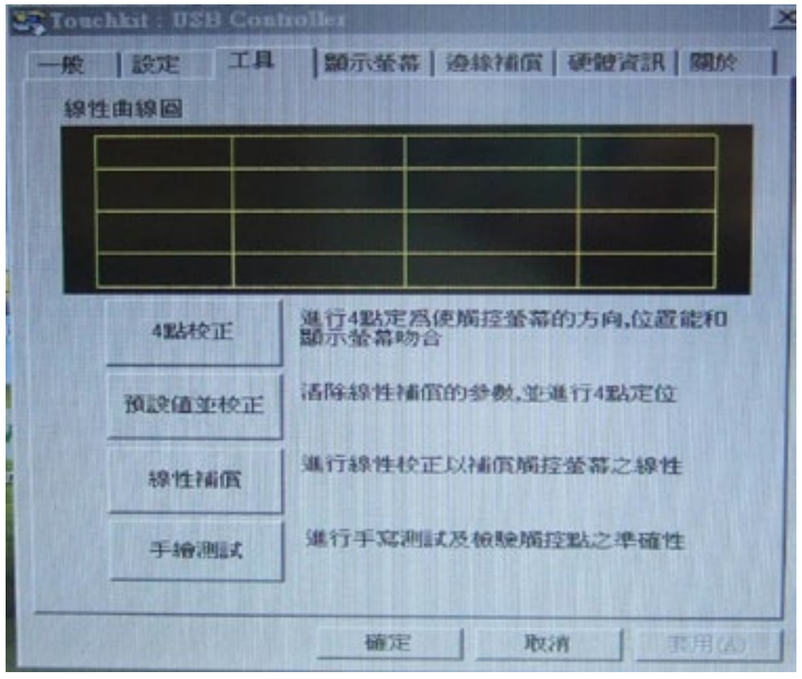
A. Install the CD Disk of the software into your PC first

B. Select the “TouchKit” function from your PC

C. Select the Interface to be USB mode

D. Select the Language what you want: English, Traditional Chinese, Simplified Chinese, Japanese, Spanish, French, German, Korean

E. Select the “4 PTS CAL” to correct the sensitivity touch panel



F. 4 Touch points are shown on the screen, please touch the left point on the bottom→right point on the bottom→right point on the top→left point on the top to correct touch function.

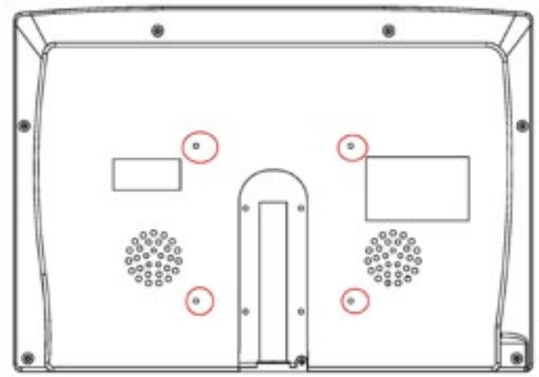
G. Draw test: when you finish the 4 Pts Cal correction, you can select the draw test and drawing on the screen for testing that if your screen can feel you touch.

H. Advance: if you feel the 4 Pts Cal is not good enough for you, you can select the advance function for 25 Pts Cal correction. The step is the same as above.

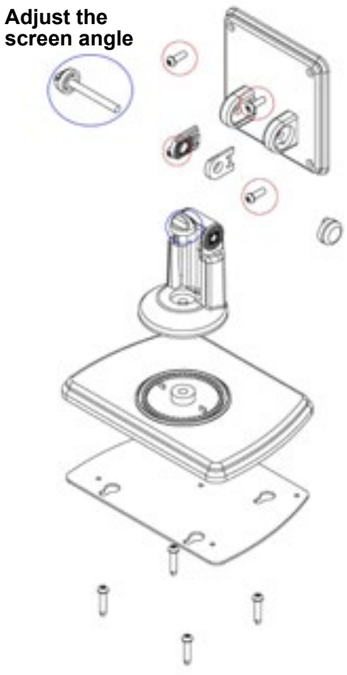
3.3 Installation

VESA Stand Installation:

Rear Enclosure



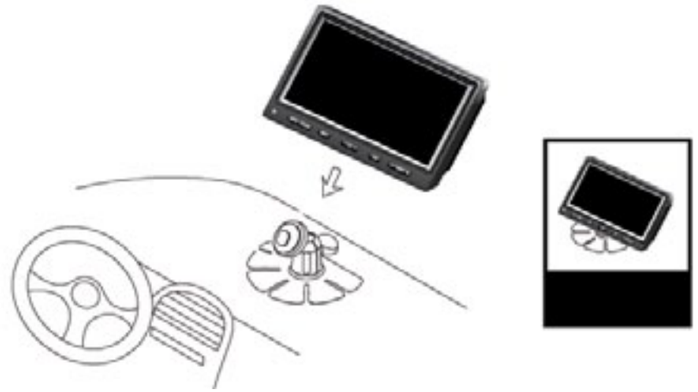
Adjust the screen angle



Steps:

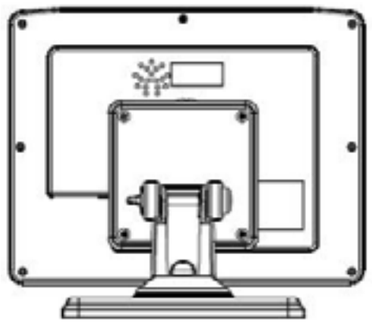
1. Screw 4 screws with the VESA hole of rear enclosure together.
2. Screw this part into the plate. (For adjusting the screen angle.)
3. 3M adhesive sticker for fix on the dashboard or suitable place.

Metal Stand Installation:

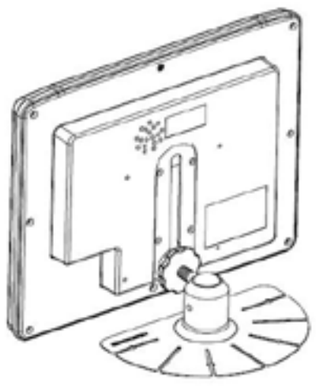


Finished

1. With VESA stand



2. With Metal Stand



***** Notice *****

Please calibrate the Touchscreen with the Touchkit-utility after the Touchscreen drivers have been installed.

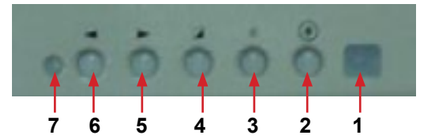
If you do not calibrate the Touchscreen, it might not work properly and can be inaccurate. (Please Refer To The Step 2 Of the User Manual)

***** Hinweis *****

Bitte kalibrieren Sie den Touchscreen im Touchkit-Programm nachdem die Touchscreen Treiber installiert sind.

Wenn Sie den Touchscreen nicht kalibrieren, dann wird er möglicherweise nicht richtig funktionieren und sehr ungenau sein. (siehe auch Handbuch, Schritt 2)

4. Video Control Keys



1. IR receiver
2. POWER: power ON/OFF & Video 1,2, VGA Mode selection.
3. Dimmer: Adjust the Dimmer range(3 levels, by manual)
4. MENU: Show menu list of function and make selection.
5. ► : Increase +) the rating of the function that you selected.
6. ◄ : Decrease -) the rating of the function that you selected.
7. Auto Dimmer Sensitive Sensor

5. Video Remote Controller Function

POWER: Power On/Off Function.

: MUTE

MENU: Show Function Menu List and make Selection.

- : Decrease the rating of the function you selected.

+ : Increase the rating of the function you selected.

S: Adjust the screen aspect ratio at 16:9 or 4:3 mode

AV: Video Selection. Select Video 1 or Video 2 & VGA Mode.

RST: Restore to the origin default value setting.

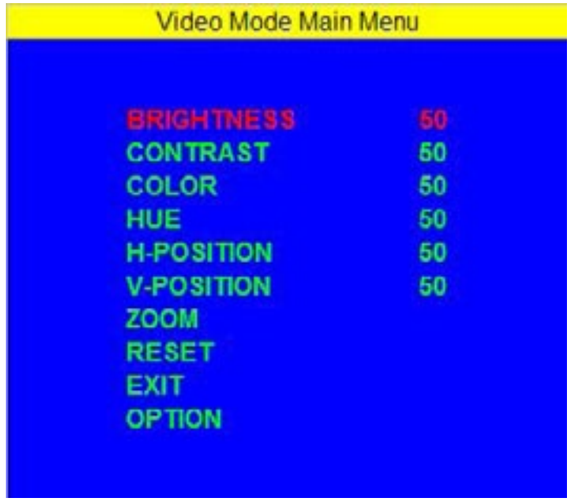
AUTO: Auto adjustment.

DIMMER: Auto, Dark, Normal, Bright

MIR: Set Mirror function of screen.

6. Content of Vlideo OSD Function

OSD Menu List



BRIGHTNESS:

Adjust the brightness of screen.

Adjustment area: 0~100

CONTRAST:

Adjust the contrast of screen.

Adjustment area: 0~100

COLOR:

Adjust the color of screen.

Adjustment area: 0~100

HUE:

Adjust HUE function.

Adjustment area: 0~100

H-POSITION:

Adjust Horizontal Position

Adjustment area: 0~100

V-POSITION:

Adjust Vertical Position

Adjustment area: 1~100

ZOOM:

Adjust Ratio Position

Adjustment Type: 16:9 /4:3

RESET:

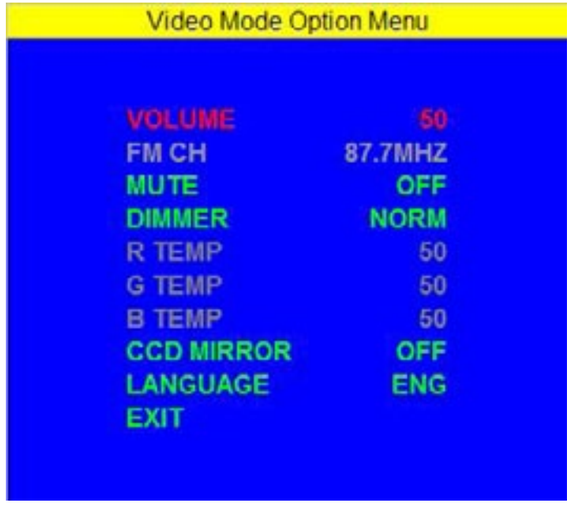
Return to origin default value

EXIT:

Save the value you set & Exit Function

OPTION: For setting more functions (Please see next page)

VIDEO OPTION Functions:



Volume: Adjust volume from 0-100

Mute: Select Audio on/off

Dimmer: Select Auto Dimmer/Bright/Dark/Normal

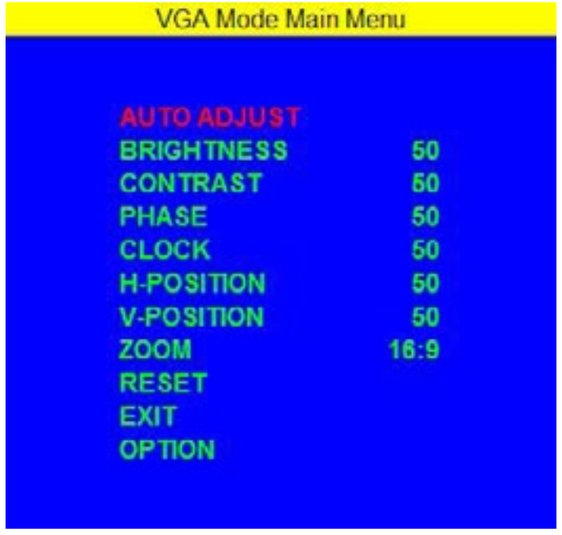
CCD Mirror: Not available for this model

Language: 5 languages of OSD in English, Spanish, French, German, Italian.

Exit: Save the value you set and Exit to last menu mode.

7. Content of VGA Function

VGA MENU LIST



AUTO ADJUST:

Adjust the screen vertical & horizontal position

BRIGHTNESS:

Adjust the brightness of screen.

Adjustment area: 0~100

CONTRAST:

Adjust the contrast of screen.

Adjustment area: 0~100

PHASE:

Adjust the Phase control. Phase adjustment may be required to optimize the display quality.

CLOCK:

Adjust the full screen by manual input (H & V screen size)

H-POSITION

Adjust Horizontal Position

Adjustment area: 0~100

V-POSITION:

Adjust Vertical Position

Adjustment area: 1~100

ZOOM:

Adjust Ratio Position

Adjust Type: 16:9 /4:3

RESET

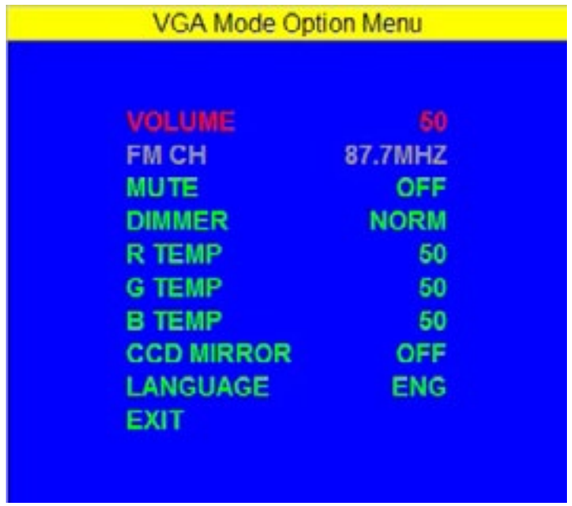
Yes: Reset the Value

No: Don’t reset the Value

EXIT: Save the setting value & Exit

Optional: Setting more functions in VGA mode

Option Menu List of VGA Mode



Volume: Adjust volume from 0-100

Mute: Select Audio on/off

Dimmer: Select Auto Dimmer/Bright/Dark/Normal

R_TEMP: Adjust RED Color Range from 0-100

G_TEMP: Adjust Green Color Range from 0-100

B_TEMP: Adjust Blue Color Range from 0-100

CCD Mirror: Not available for this model

LANGUAGE: English, Spanish, French, German, Italian.

Exit: Save the value you set and Exit Function

8. Language Table of OSD Menu

容許字數	英文	法語	德語	義語	西語
17	AUTO ADJUST	RÉGLAGE AUTO	AUTOM. EINSTELLEN	REGISTRA L'AUTO	AUTOMATICO
12	BRIGHTNESS	BRILLANCE	HELLIGKEIT	LUMINOSITÀ	BRILLO
12	CONTRAST	LUMINOSITÉ	KONTRAST	CONTRASTO	CONTRASTE
12	PHASE	PHASE	PHASE	FASE	FASE
12	CLOCK	HORLOGE	TAKT	CLOCK	RELOJ
12	H-POSITION	POSITION H	H LAGE	POSIZIONE H	POSICIÓN H
12	V-POSITION	POSITION V	V LAGE	POSIZIONE V	POSICIÓN V
12	ZOOM	ZOOM	ZOOM	ZOOM	ZOOM
12	RESET	RAPPEL	ABRUF	RECHIAMA	MEMORIA
12	EXIT	QUITTER	BEENDEN	ESCI	SALIR
12	OPTION	OPTION	WAHL	OPZIONE	OPCIÓN
12	COLOR	COULEUR	FARBE	COLORE	COLOR
12	HUE	TEINTE	FARBTON	TONALITÀ	TONO
12	VOLUME	VOLUME	LAUTSTÄRKE	VOLUME	VOLUMEN
12	FM CH	FM CH	FM CH	FM CH	FM CH
12	MUTE	MUTE	STUMM	MUTO	SILENICIO
12	DIMMER	GRADATEUR	DIMMER	LUMINOSITÀ	AMORTIGUADOR
12	R TEMP	R TEMP	R TEMP	R TEMP	R TEMP
12	G TEMP	G TEMP	G TEMP	G TEMP	G TEMP
12	B TEMP	B TEMP	B TEMP	B TEMP	B TEMP
12	CCD MIRROR	CCD MIROIR	CCD SPIEGELN	CCD SPECCHIO	CCD ESPEJO
12	LANGUAGE	LANGUE	SPRACHE	LINGUAGGIO	LENGUAJE
30	NO INPUT SIGNAL	AUCUNE ENTRÉE DE SIGNAL	KEIN SIGNALEINGANG	NESSUN INPUT DI SEGNALE	NINGUNA ENTRADA DE SEÑAL

9. VGA Mode Support

MODE	H-Resolution	V-Resolution	V-Freq (Hz)
0	640	350	50.0
2	640	350	70.0
4	720	400	50.0
6	720	400	70.0
10	640	480	60.0
15	640	400	70.0
17	640	480	75.0
20	800	600	60.3
24	800	600	75.0
27	848	480	60.0
30	848	480	75.0
32	1024	768	50.0
33	1024	768	60.0
35	1024	768	60.0
37	1024	768	70.0
39	1024	768	75.0
42	1152	864	70.0
43	1152	864	72.0
44	1152	864	72.0
45	1152	864	75.0
50	1280	960	60.0
51	1280	960	70.0
52	1280	960	72.0
53	1280	960	75.0
55	1280	1024	50.0
56	1280	1024	60.0
60	1280	1024	72.0
61	1280	1024	75.0
63	1600	1200	60.0
64	1600	1200	65.0
66	1600	1200	70.0
66	1600	1200	75.0
67	1280	720	60.0
68	1280	768	60.0
74	1920	1200	60.0

10. Replacing Batteries Of Remote Controller

Always use new batteries when replacing the old set.

Do not attempt to charge, short-circuit, disassemble, hurt or burn used batteries.

Battery replacement is necessary when remote controller acts sporadically or stops on the remote controller

Do not drop, apply shock or stop on the remote controller

Do not spill water on the remote controller

Do not place objects between the remote controller and remote control receiver

Do not use remote controller for other equipment at the same time.

If the monitor does not operate even when operating the remote controller from a close range, it is time to replace the batteries (products number: RC2025), Refer to the label on back of the Basic Controller.

11. STANDARD PACKAGE

- Metal or VESA Stand x 1
- All-In-One Cable: Power x 1, Video x 3, Audio x 2 (optional), 15Pin D-Sub, USB Cable x 1
- TouchKit Driver x 1
- Remote Controller With Battery x 1
- Touch Stylus x 1
- User’s Manual x 1
- AC Switching Power Supply x 1 (optional)
- Car Cigarette Lighter Adapter x 1 (optional)